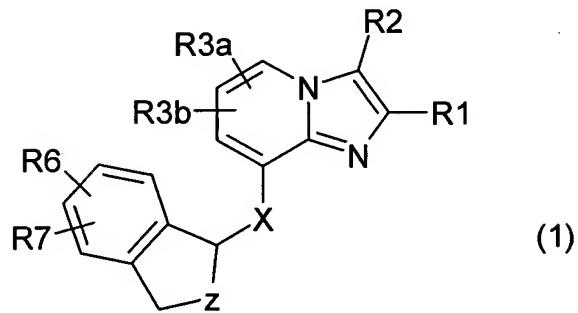




## Appendix A

### Claim Amendments

1. (Previously presented) A compound of the formula 1



in which

R1 is hydrogen, 1-4C-alkyl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl, 1-4C-alkoxycarbonyl, 2-4C-alkenyl, 2-4C-alkynyl, fluoro-1-4C-alkyl or hydroxy-1-4C-alkyl,

R2 is hydrogen, 1-4C-alkyl, aryl, 3-7C-cycloalkyl, 3-7C-cycloalkyl-1-4C-alkyl, 1-4C-alkoxycarbonyl, hydroxy-1-4C-alkyl, halogen, 2-4C-alkenyl, 2-4C-alkynyl, fluoro-1-4C-alkyl, 1-4C-alkyl-aminomethyl or cyanomethyl,

R3a is hydrogen, halogen, fluoro-1-4C-alkyl, 1-4C-alkyl, 2-4C-alkenyl, 2-4C-alkynyl, carboxyl, -CO-1-4C-alkoxy, hydroxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, 1-4C-alkoxy-

1-4C-alkoxy-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl or  
the group -CO-NR31R32,

R3b is hydrogen, halogen, fluoro-1-4C-alkyl, 1-4C-alkyl, 2-  
4C-alkenyl, 2-4C-alkynyl, carboxyl, -CO- 1-4C-alkoxy,  
hydroxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, 1-4C-alkoxy-  
1-4C-alkoxy-1-4C-alkyl, fluoro-1-4C-alkoxy-1-4C-alkyl or  
the group -CO-NR31R32,

where

R31 is hydrogen, hydroxyl, 1-7C-alkyl, hydroxy-1-4C-  
alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-  
alkoxy-1-4C-alkyl,

or where

R31 and R32 together, including the nitrogen atom to  
which both are bonded, are a pyrrolidino, piperidino,  
piperazino, N-1-4C-alkylpiperazino or morpholino group,

Z has the meaning -CHR4- or -CHR4-CHR5-

where

R4 is hydrogen, 1-7C-alkyl, 2-7C-alkenyl, hydroxyl, 1-4C-  
alkoxy, oxo-substituted 1-4C-alkoxy, 3-7C-cycloalkoxy,  
3-7C-cycloalkyl-1-4C-alkoxy, hydroxy-1-4C-alkoxy, 1-4C-  
alkoxy-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy-1-4C-alkoxy,  
3-7C-cycloalkoxy-1-4C-alkoxy, 3-7C-cycloalkyl-1-4C-

alkoxy-1-4C-alkoxy, 1-4C-alkylcarbonyloxy, halo-1-4C-alkoxy, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, mono- or di-1-4C-alkylamino-1-4C-alkylcarbonyloxy or 1-4C-alkoxy-1-4C-alkoxycarbonylamino,

R5 is hydrogen, 1-7C-alkyl, 2-7C-alkenyl, hydroxyl, 1-4C-alkoxy, oxo-substituted 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkyl-1-4C-alkoxy, hydroxy-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy-1-4C-alkoxy, 3-7C-cycloalkoxy-1-4C-alkoxy, 3-7C-cycloalkyl-1-4C-alkoxy-1-4C-alkoxy, 1-4C-alkylcarbonyloxy, halo-1-4C-alkoxy, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, mono- or di-1-4C-alkylamino-1-4C-alkylcarbonyloxy or 1-4C-alkoxy-1-4C-alkoxycarbonylamino,

R6 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl, 2-4C-alkenyloxy, 1-4C-alkylcarbonyl, carboxyl, 1-4C-alkoxycarbonyl, carboxy-1-4C-alkyl, 1-4C-alkoxycarbonyl-1-4C-alkyl, halogen, hydroxyl, trifluoromethyl, nitro, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, 1-4C-alkoxycarbonylamino or sulfonyl,

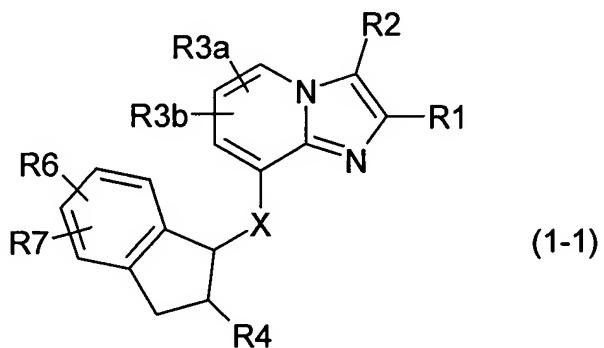
R7 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl or hydroxyl, X is O (oxygen) or NH, and aryl is phenyl or substituted phenyl having one, two or three identical or different substituents from the group consisting of 1-4C-alkyl, 1-4C-alkoxy, carboxyl, 1-4C-alkoxycarbonyl, halogen, trifluoromethyl, nitro, trifluoromethoxy, hydroxyl and cyano, or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof, with the provisos that

- (1) R3a is not hydrogen, halogen, 1-4C-alkoxy or -CO-1-4C-alkoxy when R3b is hydrogen, Z has the meaning -CHR4- and R4 is hydrogen or 1-7C-alkyl,
- (2) R3a is not hydrogen, halogen, 1-4C-alkoxy or -CO-1-4C-alkoxy when R3b is hydrogen, Z has the meaning -CHR4-CHR5-, R4 is hydrogen or 1-7C-alkyl and R5 is hydrogen or 1-7C-alkyl,
- (3) R3a is not hydrogen or halogen when R3b is hydrogen, Z has the meaning -CHR4- and R4 is hydroxyl,
- (4) R3a is not hydrogen or halogen when R3b is hydrogen, Z has the meaning -CHR4-CHR5-, one of R4 and R5 is hydroxyl and the other is hydrogen or 1-7C-alkyl,

(5) R3a is not hydrogen when R3b is hydrogen, X is O (oxygen), Z has the meaning -CHR4- and R4 is 1-4C-alkoxy, 3-7C-cycloalkoxy, 1-4C-alkoxy-1-4C-alkoxy or 1-4C-alkylcarbonyloxy and

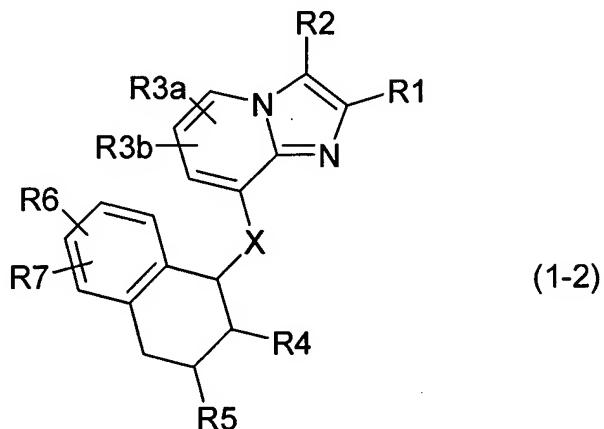
(6) R3a is not hydrogen when R3b is hydrogen, X is O (oxygen), Z has the meaning -CHR4-CHR5-, one of R4 and R5 1-4C-alkoxy, 3-7C-cycloalkoxy, 1-4C-alkoxy-1-4C-alkoxy or 1-4C-alkylcarbonyloxy and the other is hydrogen.

2. (Previously presented) A compound of the formula 1 according to claim 1, in which Z has the meaning -CHR4- and which is characterized by the formula 1-1



in which R1, R2, R3a, R3b, R4, R6, R7 and X have the meanings given in claim 1, or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

3. (Previously presented) A compound of the formula 1 according to claim 1, in which Z has the meaning -CHR4-CHR5- and which is characterized by the formula 1-2



in which R1, R2, R3a, R3b, R4, R5, R6, R7 and X have the meanings given in claim 1, or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

4. (Previously presented) A compound of formula 1 according to claim 1,

in which

R1 is 1-4C-alkyl,

R2 is hydrogen, 1-4C-alkyl or halogen,

R3a is in the 6-position and denotes carboxyl, -CO-1-4C-

alkoxy, hydroxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl or  
the group -CO-NR31R32,

where

R31 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-  
alkoxy-1-4C-alkyl and

R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-  
alkoxy-1-4C-alkyl,

or where

R31 and R32 together, including the nitrogen atom to  
which both are bonded, are a pyrrolidino, piperidino,  
piperazino, N-1-4C-alkylpiperazino or morpholino group,

R3b is hydrogen,

Z has the meaning -CHR4- or -CHR4-CHR5-

where

R4 is hydroxyl,

R5 is hydrogen,

R6 is hydrogen, 1-4C-alkyl or 1-4C-alkoxy,

R7 is hydrogen,

X is O (oxygen) or NH,

or a hydrate, solvate, salt, hydrate of a salt or solvate  
of a salt thereof.

5. (Previously presented) A compound of formula 1-1 according to claim 2, in which

R1 is 1-4C-alkyl,

R2 is hydrogen, 1-4C-alkyl or halogen,

R3a is in the 6-position and denotes carboxyl, -CO-1-4C-alkoxy, hydroxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl or the group -CO-NR31R32,

where

R31 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl,

or where

R31 and R32 together, including the nitrogen atom to which both are bonded, are a pyrrolidino, piperidino, piperazino, N-1-4C-alkylpiperazino or morpholino group,

R3b is hydrogen,

R4 is hydroxyl,

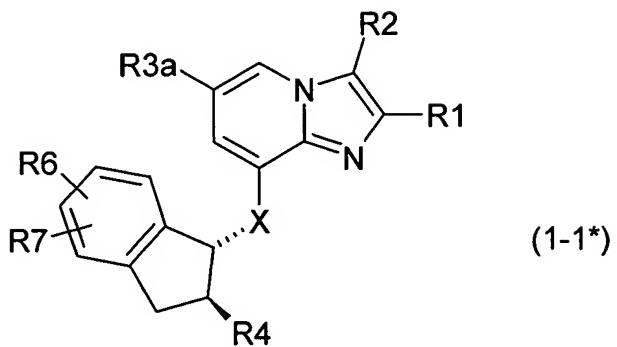
R6 is hydrogen, 1-4C-alkyl or 1-4C-alkoxy,

R7 is hydrogen,

X is O (oxygen) or NH,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

6. (Previously presented) An optically pure compound of formula 1-1 according to claim 2, which is characterized by the formula 1-1\*



and in which

R1 is 1-4C-alkyl,

R2 is hydrogen, 1-4C-alkyl or halogen,

R3a is in the 6-position and denotes carboxyl, -CO-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl, 1-4C-alkoxy-1-4C-alkoxy-1-4C-alkyl or the group -CO-NR31R32,

where

R31 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen, 1-7C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl,

or where

R31 and R32 together, including the nitrogen atom to which both are bonded, are a pyrrolidino, piperidino, piperazino, N-1-4C-alkylpiperazino or morpholino group, R4 is hydroxyl, 1-4C-alkoxy, oxo-substituted 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkyl-1-4C-alkoxy, hydroxy-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkoxy-1-4C-alkoxy, 3-7C-cycloalkoxy-1-4C-alkoxy, 3-7C-cycloalkyl-1-4C-alkoxy-1-4C-alkoxy, 1-4C-alkylcarbonyloxy, halo-1-4C-alkoxy, amino, mono- or di-1-4C-alkylamino, 1-4C-alkylcarbonylamino, 1-4C-alkoxycarbonylamino, mono- or di-1-4C-alkylamino-1-4C-alkylcarbonyloxy or 1-4C-alkoxy-1-4C-alkoxycarbonylamino,

R6 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy or halogen,

R7 is hydrogen,

X is O (oxygen) or NH,  
or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

7. (Previously presented) A compound of formula 1-1\* according to claim 6, in which

R1 is 1-4C-alkyl,

R2 is 1-4C-alkyl,

R3a is in the 6-position and denotes carboxyl, -CO-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl or the group -CO-NR31R32, where

R31 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen or 1-4C-alkyl,

R4 is hydroxyl,

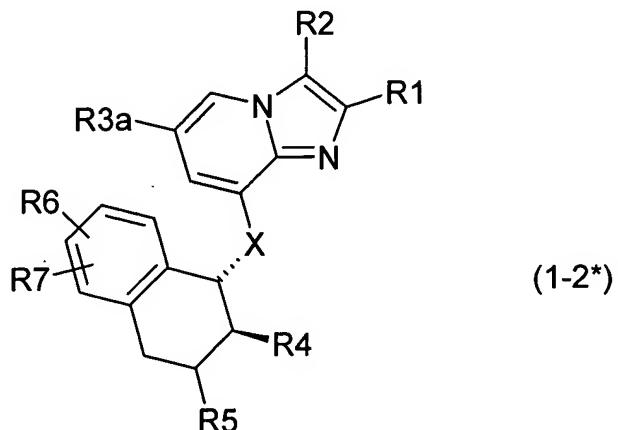
R6 is hydrogen,

R7 is hydrogen,

X is O (oxygen) or NH,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

8. (Previously presented) An optically pure compound of formula 1-2 according to claim 3, which is characterized by the formula 1-2\*



in which

R1 is 1-4C-alkyl,

R2 is 1-4C-alkyl,

R3a is in the 6-position and denotes carboxyl, -CO-1-4C-alkoxy, 1-4C-alkoxy-1-4C-alkyl or the group -CO-NR31R32,

where

R31 is hydrogen, 1-4C-alkyl, hydroxy-1-4C-alkyl or 1-4C-alkoxy-1-4C-alkyl and

R32 is hydrogen or 1-4C-alkyl,

R4 is hydroxyl,

R5 is hydrogen,

R6 is hydrogen,

R7 is hydrogen,

X is O (oxygen) or NH,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

9. (Currently amended) A pharmaceutical composition comprising a therapeutically effective amount of a compound as claimed in claim 1 and/or a pharmaceutically acceptable hydrate, solvate, salt, hydrate of a salt or solvate of a

salt thereof, together with a pharmaceutically acceptable auxiliary and/or excipient.

10. (Canceled)

11. (Previously presented) A method of preventing or treating a gastrointestinal disorder in a patient comprising administering to a patient in need thereof a compound of formula I as claimed in claim 1, or a pharmaceutically acceptable hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

12. (New) A compound of the formula I, selected from the group consisting of

Methyl 8-(*trans*-2,3-dihydro-2-hydroxy-1-indenylamino)-2,3-dimethyl-imidazo[1,2-a]pyridine-6-carboxylate,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenylamino)-2,3-dimethyl-imidazo[1,2-a]pyridine-6-carboxylic acid,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenylamino)-6-[N-(2-methoxyethyl)-amino-carbonyl]-2,3-dimethyl-imidazo[1,2-a]pyridine,

8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenylamino)-6-(N,N-dimethylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-a]pyridine,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenylamino)-6-(N-methylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-a]pyridine,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenylamino)-2,3-dimethyl-imidazo[1,2-a]pyridine-6-carboxamide,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenyloxy)-2,3-dimethyl-imidazo[1,2-a]pyridine-6-carboxylic acid,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenyloxy)-6-(N,N-dimethylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-a]pyridine,  
8-(*trans*-2,3-Dihydro-2-hydroxy-1-indenyloxy)-6-methoxymethyl-2,3-dimethyl-imidazo[1,2-a]pyridine,  
8-[(1*S*,2*S*)-2,3-Dihydro-2-hydroxy-1-indenyloxy)-6-(N,N-dimethylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-a]pyridine,  
6-(N,N-Dimethylamino-carbonyl)-2,3-dimethyl-8-(*trans*-1,2,3,4-tetrahydro-2-hydroxy-1-naphthalenyloxy)-imidazo[1,2-a]pyridine hydrochloride,  
8-(*trans*-2,3-Dihydro-2-hydroxy-7-methoxy-1-indenyloxy)-6-(N,N-dimethylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-a]pyridine, and

8-(*trans*-2,3-Dihydro-2-hydroxy-7-methyl-1-indenyloxy)-6-  
(N,N-dimethylamino-carbonyl)-2,3-dimethyl-imidazo[1,2-  
a]pyridine.